

VOFO= ★ P31

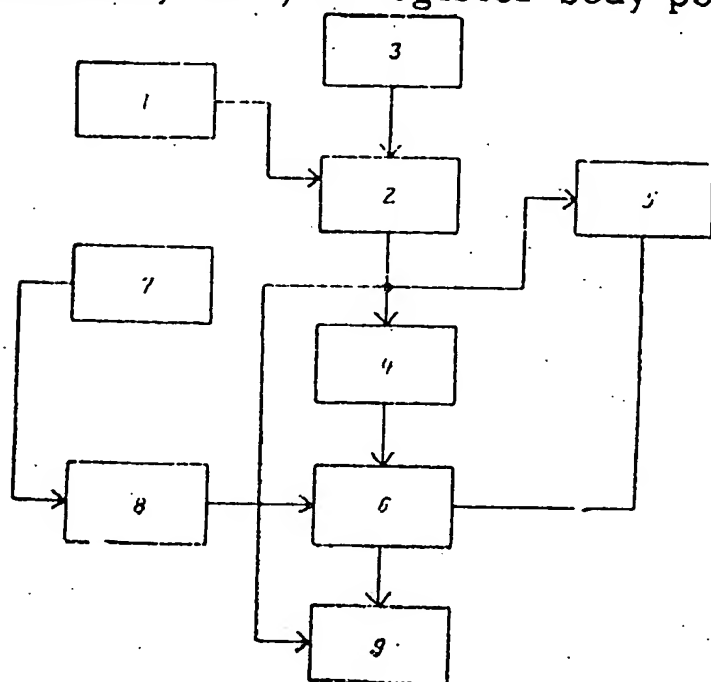
H3749A/38 ★SU-578-061

Human body position register for ergonomic research - has comparator connected to deviation integrator and intervals timer and computing circuit

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Circuit used in medical diagnostics (antropometry, ergonometry etc.) to register body position at work, sporting



events etc. is provided with a strain transducer averager, deviations integrator, timer and computing unit to determine biomechanical characteristic of a human stature. The comparator is connected to deviations integrator and to intervals timer coupled to a computing circuit. Third input of the computing circuit is coupled to strain transducer via averager.

Circuit contains posture detectors (1) arranged

along the shoulders, hips etc. comparator (2), threshold levels setter (3) deviations integrator (4), timer (5), computing circuit (5), strain transducer (7), averager (8) and register (9).

Body posture angles within the limits of comfort are pre-set (3) depending on individuals build, body, work and effort, and compared (2) with detectors (1) output. Deviation signals are integrated (4) along with averaged (8) strain transducer (7) and timer (5) signals to determine the degree of discomfort. Efanova R.A., Bul. 40/30.10.77. 17.6.76 as 374773 (3pp537)

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